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NOTICE OF ALLOWANCE AND FEE(S) DUE

26774

7590

08/12/2010

NIXON PEABODY LLP - PATENT GROUP 1100 CLINTON SQUARE ROCHESTER, NY 14604 EXAMINER

TSAY, MARSHA M

ART UNIT PAPER NUMBER

1656

DATE MAILED: 08/12/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,471	08/31/2006	Philip J. Fay	176/61702	3888

TITLE OF INVENTION: RECOMBINANT FACTOR VIII HAVING INCREASED SPECIFIC ACTIVITY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	11/12/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

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							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/581,471	08/31/2006		Philip J. Fay			176/61702	3888
IITLE OF INVENTION	: RECOMBINANT FAC	TOR VIII HAVING INC	CREASED SPECIFIC ACT	IVITY			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0		\$1055	11/12/2010
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EXAM		ART UNIT	CLASS-SUBCLASS				
TSAY, MA	ence address or indication	1656	530-383000 2. For printing on the page 2.				
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to or agents OR, alternativ(2) the name of a single registered attorney or a 2 registered patent attor listed, no name will be	ely, e firm (having as a gent) and the name meys or agents. If n	memb s of u	er a 2	
PLEASE NOTE: Unl recordation as set forth (A) NAME OF ASSIG	less an assignee is identi h in 37 CFR 3.11. Comp GNEE	fied below, no assignee eletion of this form is NO	I' a substitute for filing an a	tent. If an assigne assignment. and STATE OR Co	DUNT	RY)	ocument has been filed for
Please check the appropri	iate assignee category or	categories (will not be pr	inted on the patent):	Individual 🖵 Cor	porati	on or other private gro	oup entity 🔲 Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			D. Payment of Fee(s): (Plea A check is enclosed. Payment by credit care The Director is hereby overpayment, to Depos	I. Form PTO-2038 authorized to charg	is atta	ched.	
a. Applicant claims	tus (from status indicated s SMALL ENTITY statu	s. See 37 CFR 1.27.	b. Applicant is no long				
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if requeecords of the United Sta	iired) will not be accepted tes Patent and Trademark	from anyone other than the Office.	ne applicant; a regis	tered a	nttorney or agent; or th	e assignee or other party in
Authorized Signature Typed or printed name							
This collection of inform an application. Confident this form and/or suggesti Box 1450. Alexandria. V	nation is required by 37 C tiality is governed by 35 d application form to the tons for reducing this bur irginia 22313-1450. DO	FR 1.311. The information U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR	on is required to obtain or re 1.14. This collection is esti depending upon the indiv. e Chief Information Office COMPLETED FORMS TO	etain a benefit by the mated to take 12 m idual case. Any cor r, U.S. Patent and 7 D THIS ADDRESS.	e publ inutes nment raden SENI	ic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa D TO: Commissioner	I by the USPTO to process) g gathering, preparing, and ne you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/581,471	08/31/2006	Philip J. Fay	176/61702 3888			
26774 75	590 08/12/2010		EXAM	XAMINER		
NIXON PEABO	DY LLP - PATENT	TSAY, MARSHA M				
1100 CLINTON SQUARE			ART UNIT PAPER NUMBER			
ROCHESTER, NY	′ 14604		1656			
			DATE MAILED: 08/12/2010			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	Application No.	Applicant(5)	
Notice of Allowability	10/581,471	FAY ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Marsha M. Tsay	1656	
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED or other appropriate comr IGHTS. This application is	in this application. If not included nunication will be mailed in due cours	
1. X This communication is responsive to Applicants' after final	remarks received July 16,	<u>2010</u> .	
2. The allowed claim(s) is/are <u>4-6,9,12,13,19-22 and 48-53</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	e been received.		
3. ☐ Copies of the certified copies of the priority do	• • • • • • • • • • • • • • • • • • • •		ana tha
	cuments have been receiv	ed in this national stage application if	om me
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give	MENT of this application. iitted. Note the attached Exercises reason(s) why the oath	(AMINER'S AMENDMENT or NOTIC	
5. CORRECTED DRAWINGS (as "replacement sheets") mus			
(a) ☐ including changes required by the Notice of Draftspers	-	ew (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1) of
each sheet. Replacement sheet(s) should be labeled as such in t	he header according to 37 (FR 1.121(d).	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			he
Attachment(s)	5 N (1 - 6	6 ID (
1. Notice of References Cited (PTO-892)		nformal Patent Application	
 Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO/SB/08), 	Paper No	Summary (PTO-413), n./Mail Date s Amendment/Comment	
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit		s Statement of Reasons for Allowanc	e
of Biological Material	9. 🔲 Other	<u></u> ·	

Art Unit: 1656

This Office action is in response to Applicants' after final remarks received July 16, 2010.

Claims 4-6, 9, 12-13, 53, 57 are directed to an allowable product. Pursuant to the procedures set forth in MPEP § 821.04(b), claim 58, directed to the process of making or using the allowable product, previously withdrawn from consideration as a result of a restriction requirement, is hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Because a claimed invention previously withdrawn from consideration under 37 CFR 1.142 has been rejoined, the restriction requirement between groups I and VIII as set forth in the Office action mailed on June 24, 2008 is hereby withdrawn. In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Application/Control Number: 10/581,471 Page 3

Art Unit: 1656

Authorization for this examiner's amendment was given in a telephone interview with Edwin V. Merkel on July 30, 2010.

The application has been amended as follows:

In the claims:

1. (canceled)

19. (currently amended) A pharmaceutical composition comprising the recombinant factor VIII

according to claim [[1]] 53.

48. (currently amended) A method of treating an animal for hemophilia A, the method

comprising:

administering to an animal exhibiting hemophilia A an effective amount of the recombinant factor VIII according to claim [[1]] 53, whereby the animal exhibits effective blood clotting following vascular injury.

53. (currently amended) A recombinant factor VIII comprising an A1 domain having a calcium

binding site according to one of SEQ ID NOS: 4-7 except that the calcium binding site has a

except for a substitution of the glutamic acid residue at the fourth residue of SEQ ID NOS: 4-7

position thereof, wherein the recombinant factor VIII has a specific activity, as measured in a

one-stage clotting assay, that is higher than that of a corresponding wild-type factor VIII.

55-58. (canceled)

The following is an examiner's statement of reasons for allowance: claims 4-6, 9, 12-13, 19-22, 48-53 are drawn to a recombinant factor VIII comprising an A1 domain having a calcium binding site according to one of SEQ ID NOS: 4-7 except for a substitution of the glutamic acid

residue at the fourth residue of SEQ ID NOS: 4-7, wherein the recombinant factor VIII has a specific activity, as measured in a one-stage clotting assay, that is higher than that of a corresponding wild-type factor VIII and a method of treating an animal for hemophilia A comprising administering said recombinant factor VIII. The examiner can find no teaching or suggestion of such a recombinant factor VIII polypeptide in the prior art of record.

Claims 4-6, 9, 12-13, 19-22, 48-53 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marsha M. Tsay whose telephone number is (571)272-2938. The examiner can normally be reached on M-F, 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Manjunath N. Rao can be reached on 571-272-0939. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

Application/Control Number: 10/581,471

Art Unit: 1656

applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Page 5

July 30, 2010

M. Tsay Art Unit 1656

/David J. Steadman/ Primary Examiner, Art Unit 1656